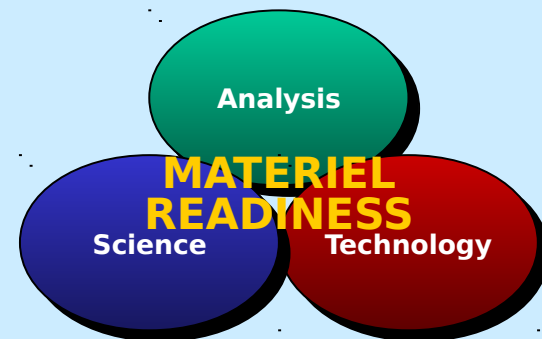
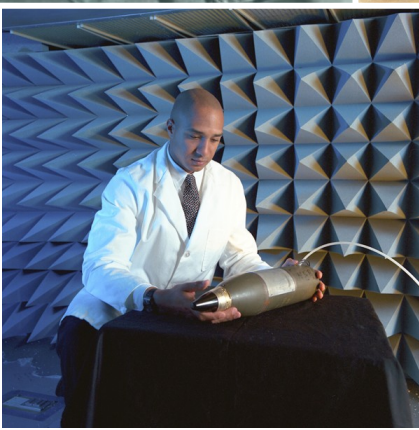
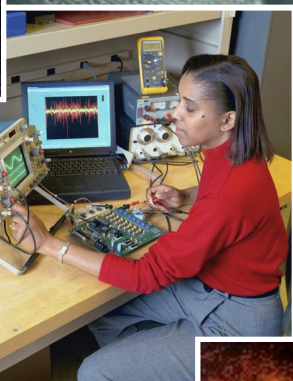


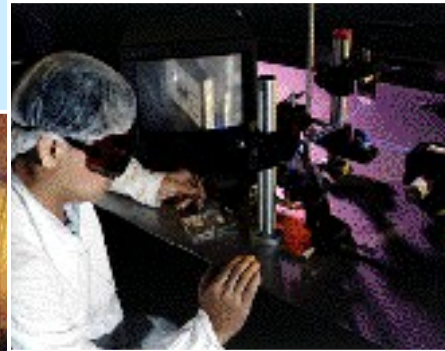


U.S. Army Research Laboratory

Vallen L. Emery, Jr., PhD
Minority Outreach
Manager



ARL is committed to customer service, providing breakthroughs for the Future Army, partnering with the private sector, and operating more efficiently and effectively.



Mission

Innovative science,
technology, and
analyses to enable Army
Transformation.

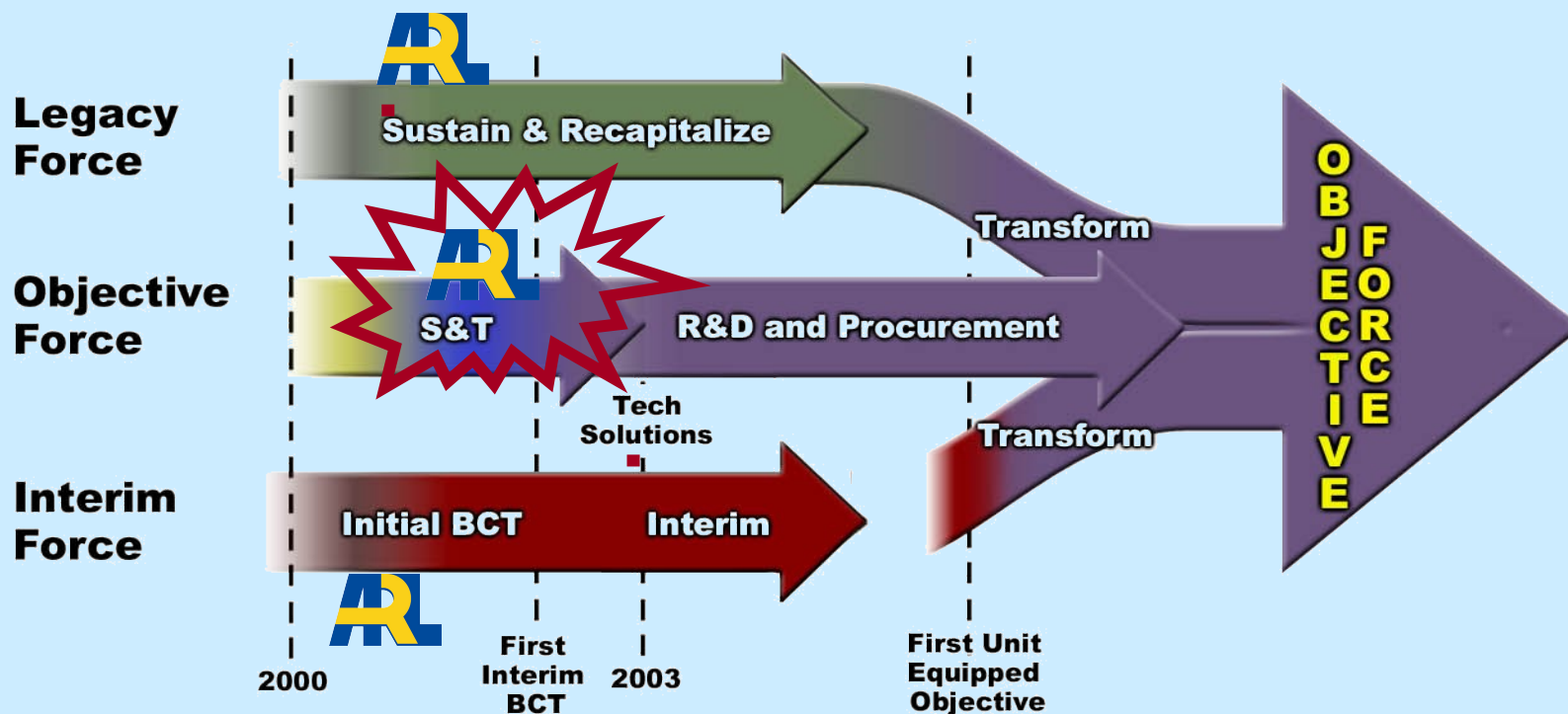
ARL Vision

***America's
Laboratory for The
Army ... Providing
Materiel Readiness
Through Innovative
Technology***



Army Transformation

ARL Contributions



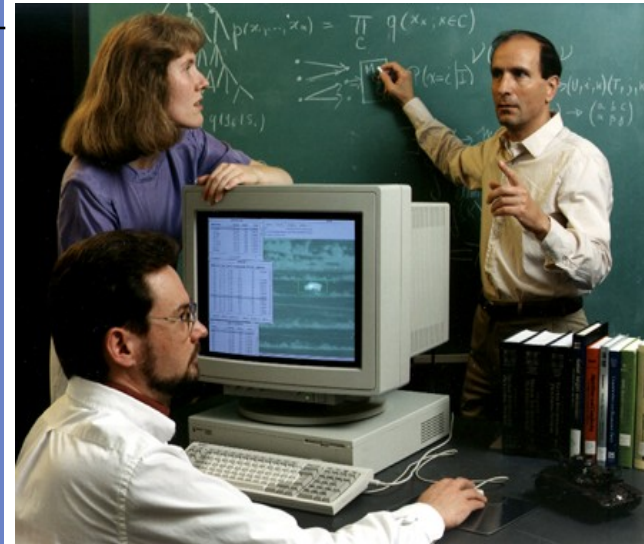
***. . . Responsive, Deployable, Agile,
Versatile, Lethal, Survivable,
Sustainable.***

Civilian Personnel Profile

Scientists & Engineers 1238

(CP-16)

	311
Electrical/Electronics Engineers	241
Physicists/Physical Scientists	125
	59
Mechanical Engineers	107
Materials	65
Engineers/Metallurgists	57
General/Industrial Engineers	55
	51
Aerospace Engineers	48
Engineering Psychologists	23
Chemical Engineers/Chemists	56
Mathematicians/Statisticians	6
Computer Scientists	34



S&E Workforce 1238

Bachelors 395

Masters

Doctorates 377

Total Workforce 2086

Bachelors 540

Masters

Doctorates 406

Minority Outreach Program

OBJECTIVES:

- To identify compatible technical strengths of HBCU/MIs and match with ARL Directorate mission areas
- To facilitate research partnerships between ARL directorates and HBCU/MIs
- To identify competent minority E&S for potential employment at ARL

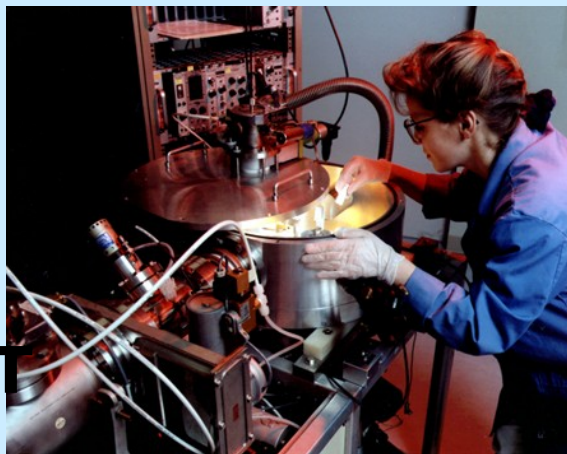


Collaborative Technology Alliances



- Getting more “bang for the buck” through innovative leveraging
- Refreshing and augmenting our in-house work force
- Extending our reach to non-traditional areas of technology generation

GOVERNMENT



INDUSTRY



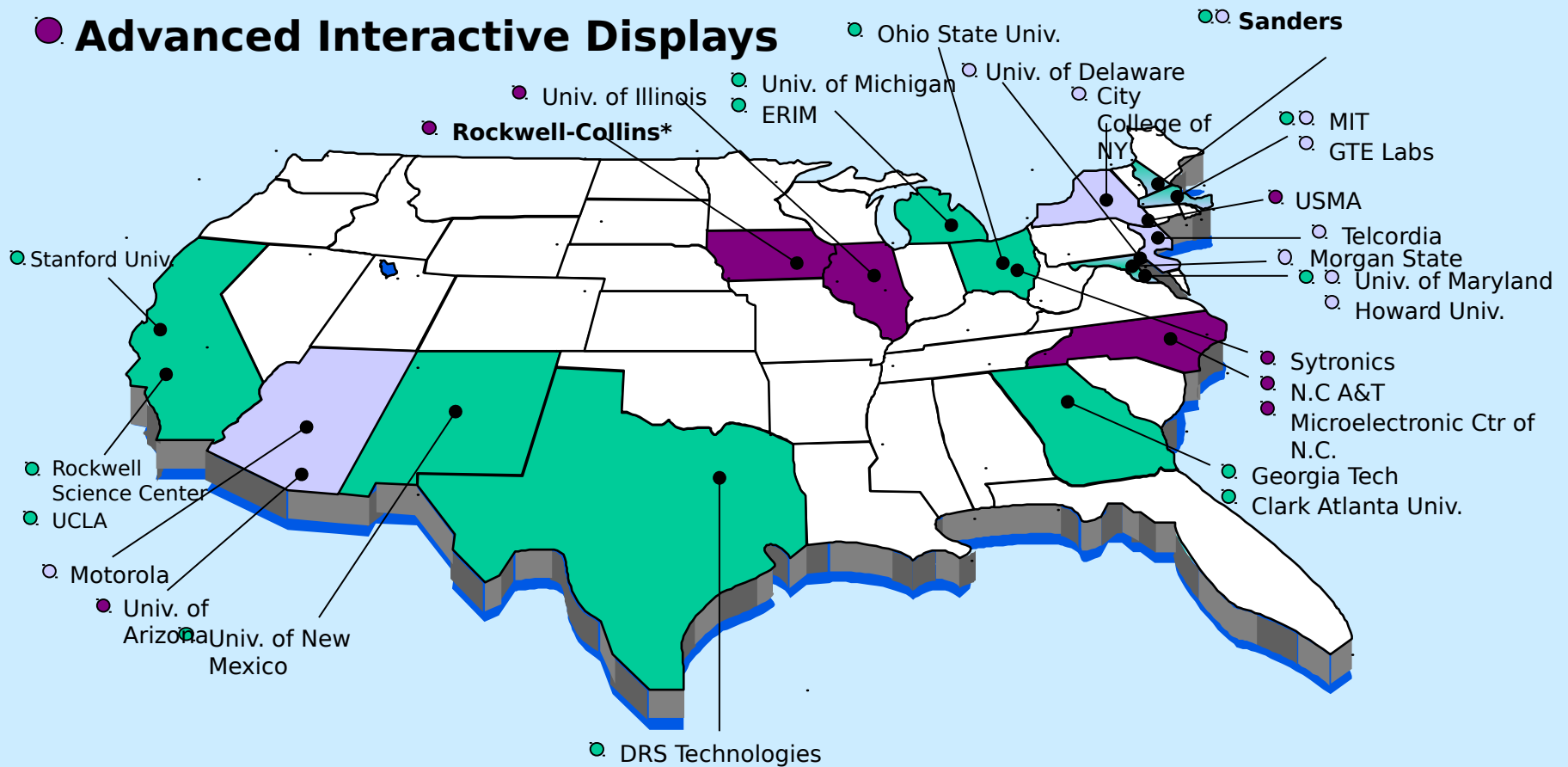
ACADEMIA

Federated Laboratory Consortium Members

● **Advanced Sensors**

○ **Telecommunication and Information Distribution**

● **Advanced Interactive Displays**





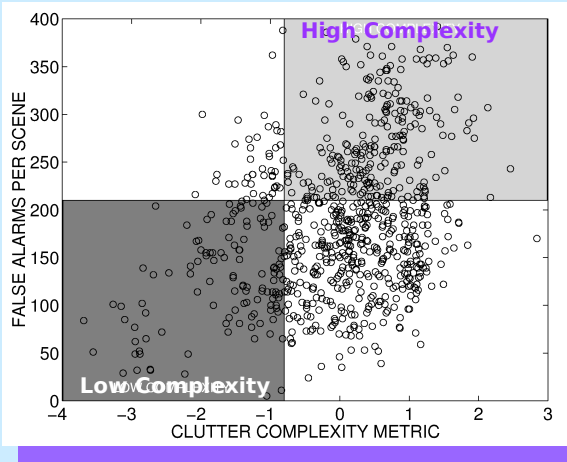
Partnering With HBCU/MI's



North Carolina A & T



- Alternative Courses of Action Display (ACAD) - the front-end computer interface
- Established PhD Program in Industrial Engineering
- ARL full-time adjunct professor



Clark Atlanta University

- Image Complexity Metrics
- ATR
- Enhanced Graduate Curriculum in Signal Processing

Morgan State University



- Receivers for Mobile Communications
- Established MS & PhD in EE with concentration in Communications
- ARL adjunct professor teaches graduate level course



Program Plan

1996 1997 1998 1999 2000 2001 2002 2003 2004 2005

Current FedLab Programs - 5 yrs

Advanced Sensors
Advanced Telecommunications & Info Distribu
Advanced Displays & Interactive Displays

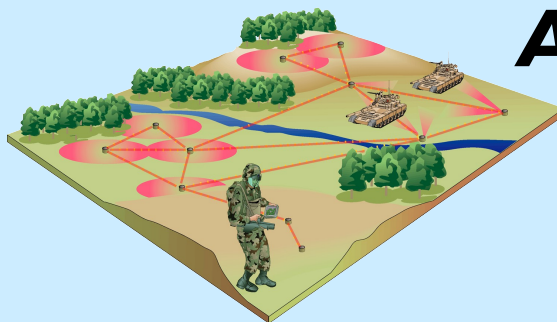
New CTA Programs - 5+3 yrs

Advanced Sensors
Advanced Decision Architectures
Communications & Networks
Robotics
Power & Energy

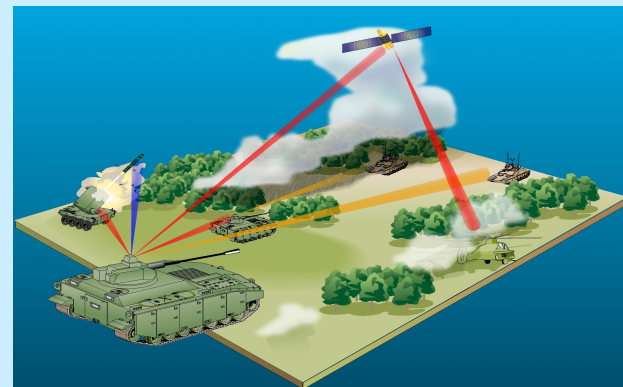


FedLab Evolution for the Army Vision: Collaborative Technology

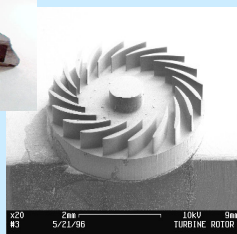
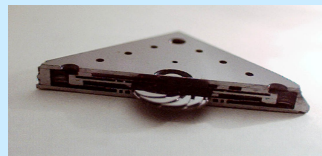
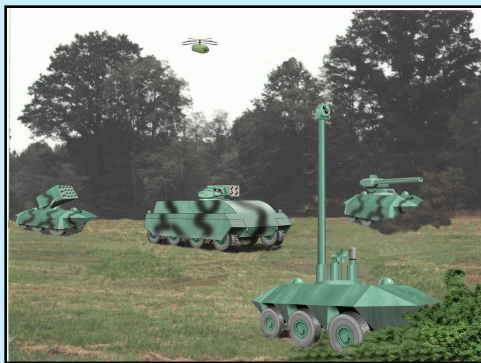
Communications & Networks



Advanced Sensors



Power & Energy



Robotics



Advanced Decision Architectures

Minority Outreach Program

ARL's investment in HBCU/MI universities total \$15.8 M for FY'00

- HBCU/MI awards (grants) \$7.2M
- ARL contract awards in FY'00 - \$5.3M
- ARL Co-op agreements in FY'00- 2.7M

Minority Outreach Program

STARS - (ARL Program)

- Ten current STARS fellows (1-WMRD, 4- ISTD, & 5-SEDD)
- 3 undergrad, 4 first year grad* , and 3 second year grad
- FY'00 240K obligated for fellows

Minority Outreach Program

Summer Faculty/Student Program

- HACU/ARL from Army Small Business
- Faculty & students @ ARL for 10 weeks
- Designed to address Hispanic shortages in ARL E&S
- HACU through NMSU manage program

Minority Outreach Program

HBCU/MI Seminar Series

- HBCU/MIs invited to ARL labs
- ARL researchers invited to participate in university graduate seminars

ARL Web-Sites

- www.arl.army.mil
- Research Programs
- www.aro.ncren.net
- For the researcher